GIS Users Meeting

Agenda
December 3, 2015

Location: Constitution Hall, 525 W Allegan, Lansing
Conference Room ConCon A – south lower level

Conference line: **877-873-8017 access code 7774472** – begins at 10:00 AM

Timeline:

9:30 – 10:00 Networking (Coffee, bagels, muffins provided)

10:00 – 12:00 Morning Session

- I - Introductions and Approval of Meeting Minutes
- II - Federal, State, and Association Updates (5 minutes each)
- III - Local, Regional, Vendor Partners, Other Updates (2 minutes each)
- IV - Special Topic
- V - Other Items, and Conclusion

12:00 – 1:30 Lunch on your own.

1:30 – 3:30 Educational Session.

Morning session Special Topic: **How can Michigan accelerate geologic mapping?**

Presented by: John A. Yellich, CPG, Director, Michigan Geological Survey

The Michigan Geological Survey (MGS) is charged (PA 167) with assessing the natural resources of the State of Michigan. Today, approximately 10 percent of the State of Michigan has publically available information on the surface and near surface natural resources of minerals, aggregates, water, wetlands, natural hazards and outcrops. All surface geology requires boots on the ground, but today there is a new science to accelerate the MGS assessment. The greatest advances to mapping not just geology but most of our surface resources is **LiDAR**, coupled with "Google Earth" and ultimately confirmation with boots on the ground.

Afternoon Educational Topic: **LiDAR (Light Detection And Ranging)**

Presented by: Max Clever, Project Engineer, Spicer Group Inc.
Frank Boston, CP, Survey Support Unit, MI Dept. of Transportation (MDOT)
Steven Cross, GIS Analyst, MI Center for Shared Solutions (CSS)

Max will discuss LiDAR and how LiDAR supports hydrology.
Topics covered: bald earth creation, Hydro-flattening, NHD comparison, Hydro-Enforcement and Calculated Watersheds, Field Verified Watersheds, Flood Mapping, DEM Derivatives.

Frank will describe how terrestrial and mobile LiDAR are used by the MDOT Design division for various projects.

Steven will describe current LiDAR activities at CSS:
Status of LiDAR acquisition and delivery, software in use, Quality Assurance process, contour generation.